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FOR

MISSOURI AND ARKANSAS RIVER BASINS

May 1, 1937.

The following data pertaining to snow surveys and irrigation water-supply forecasts are provided by the Bureau of Agricultural Engineering, U. S. Department of Agriculture, in cooperation with State departments, other Federal bureaus and local organizations. 1/

6,000 feet or more in elevation, east of the divide in Wyoming show the precipitation to be 85 percent of normal. Precipitation in the South Platte River Basin is 70 percent of normal. Seven precipitation stations, 6,000 feet Status of precipitation as of October 1 to May 1: For Montana it is reported that the average accumulative precipitation for this period in the western part was 8.36 inches or 84 percent of normal; for the central part of the state the precipitation was 4.93 inches or 85 percent of normal. Twenty-one precipitation stations, or more in elevation, in the Arkansas River Basin show the precipitation to be 94 percent of normal.

give a sustained run-off until July. It is expected that the flood flow in the tributaries will occur somewhat In the Laramie River Basin in Colorado and Wyoming most of the low snow has melted with a resulting increase in stream flow. The soil is thoroughly saturated. The snow cover in the high areas is good and will earlier this year than formerly. For the North Platte the prospects are good for a normal run-off.

In the Powder and Big Horn basins in Wyoming, soil moisture conditions are reported to be fair and are improved over that of April first. For Colorado the soil moisture is good; crops are starting rapidly; and little or no water is being used for irrigation except for truck gardening. Water held in snow storage on the South Platte River drainage basin on May 1, based on the records from The same comparison for the Arkansas six courses, was 76 percent of the amount at this time last year. drainage basin based on records from six courses is 68 percent. The attached table showing the storage in reservoirs, as of May 1, indicates the following: The Pathfinder Reservoir on the North Platte is 68 percent of the past ten-year average and is better than that of last year at this time. It is expected that this reservoir will fill to normal capacity. For ten principal reservoirs Reservoir storage in the tributary areas of the South Platte is practically the same as last year especially in the Poudre Valley. An improvement in storage is noted for the Arkansas Valley over that of last year. in the South Platte, the storage on May 1 was approximately 125 percent of that a year ago at this time.

U. S. Department of Agricaltare

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Soil Conservation Service

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MISSOURI RIVER BASIN

	••	••	. May 1. Si	Snow Course	Measurements	20
Tributary Basins		Location :	. Average Snow	ow Depth	Average Water	er Depth
(Primary & Secondary & Snow Courses)	State : Sec.	Sec. Twp. Range : Elev. or Latitude & Longitude :				H
JEFFERSON RIVER						
Camp Creek 2/ East Fork R. Sta. 2/ Elkhorn Hot Springs Gibbons Pass Moose Greek 2/ Storm Lake 2/	Idaho Mont. Mont. Idaho Mont.	21 13N 36E 6800 16 2N 17W 5400 15 4S 12W 8000 22 & 27 27N 21E 6200 19 4N 13W 8135	Trace 0.0 22.5 56.4 40.0	11978	Trace 0.0 7.8 20.7 13.1	17.6
MADISON RIVER						
Aster Creek 2/ Big Springs 2/ Hebgen Lake Lewis Lake Divide 2/ Twenty-one Mile 3/ Valley View 2/ West Yellowstone	Wyo. Idaho Mont. Wyo. Mont. Idaho	Lat. 44017; Long. 110027; 7700 34 14N 44E 6500 22 11S 3E 6550 Lat. 44013; Long. 110040; 7900 1 11S 5E 7150 7 15N 44E 6500 34 & 35 13S 5E 6700	77.04 41.1 103.04 27.7 31.1	87.0* 116.0* 16.2	2000 2000 2000 2000 2000 2000 2000 200	10.04 55.04 6.6
GALLATIN RIVER						
Devils Slide Hood Meadow Mystic Lake No. 1 Mystic Lake No. 2 Twenty-one Mile 3/	Mont. Mont. Mont.	11 & 14 55 6E 8300 22 45 6E 6600 31 3S 7E 6600 31 11S 5E 7150	67.0 28.0 12.0 28.0	43 16.2	20.3	17.6
Hood Meadow Extension	Mont		25.0	8.0	8	0.3

*Observations made April 16.

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Tributary Basins		ation			May 1	May 1, Snow Course Measurements	rse Measure	ements	
(Primary & Secondary & Snow Courses)	State	Sec. Twp.	Twp. Range ide & Longitude	Elev.	Average Sn 1937 (Inches)	Snow Depth 1936 (Inches)	Average War 1937 (Inches)	Water Depth 1936 (Inches)	
MISSOURI RIVER (Between Helena & Great Falls)	Falls)								
Tenmile Creek		10	10 H		Day of the Control of		200		
Chessman Reservoir Tenmile Greek, Lower Tenmile Greek, Middle Tenmile Greek, Upper	Mont. Mont. Mont.	9 2 2 1 5 1 6 1 6 1 6 1 6 1 6 1 6 1 6 1 6 1 6	SSN	6200 6250 7000 8000	11.00 8.30 31.5	1111	4000 4000	1111	
Little Prickley Pear Creek	sek								
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Smith Creek		200		888	100	1	1000	1	
Kings Hill	Mont.	35 1	13N 7E	7800	39.8	28.0	12.6	12.2	
Sun River				1000					
Goat Mountain	Mont.	Lat.470311,	Lat. 470311, Long. 1120551	7000	15.1	5.0	h.7	1.8	
MARIAS RIVER									
Desert Mountain 2/ Marias Pass	Mont. Mont.	24 5 Late 480198,	24 jin 19W Late, 480191, Long. 113021	5500	23.0	7.9	13.5	150	
MILK RIVER		40.12			1000				
Grace Lake 2/ Kintla Creek No. 4 2/	Mont.	174 3	35N 19W 37N 21W	4300	000	11	00	11	
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ements	1936 (Inches)			I		1	74	27.6	ı		27.6	# 0 # 1 0 #	0.0	4.5		0.0
1. Snow Course Measurements now Denth Average Water Denth	1937 (Inches)			5.5		0.0		19.8	12.3		19.8	アグス	7.0	h.0		3.6
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ation	Location C. Twp. Latitude & Lon 95			56M		Suor 62°th	NTC		168 168 178 178 178 178 178 178 178 178 178 17	71N 53N 421	N641	SIN		53N		
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Tributam Bacine	(Primary & Secondary & Snow Courses)	YELLOWSTONE RIVER	Headwaters of Yellowstone River	Gooke City	Clark Fork	Lodge Pole Creek	Shoshone River		Togwotee Pass 2/ Upper Hardpan	Big Horn River	Brooks Lake No. 1 Brooks Lake No. 2 Dunrude Dude Ranch Ranger Creek	Roaring Fork Shell Creek R. Sta. Sheridan Creek R. Sta.	Tensleep R. Sta.	Whorten Meadow	Tongue River	Big Goose Creek R. Sta.

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Location : May 1, Snow Course Measurements Average Snow Depth Average Water Depth	*Sec. Twp. Range: Elev. 1937 1936 1937 sor Latitude & Longitude: (Inches) (Inches)		70. 18 43N 85W 7500 18.8 5.8 6.8		9 VIII 82W 0000 TILL 167	21 5m 82m 9300 42.4 48.0 17.4	27 16M 80W 10100 77.3 76.8 23.4 27 16N 81W 9400 58.9 44.5 17.0	25 14N 85W 9800 98.5 79.1 39.6	20 24 5N 78W 9200 18.0 5.2 5.9 1.65 3.1 8.2 7.4 3.1	27 14N 85N 9000 65.6 56.3 26.6	7 8N 75W 8600 13.6 4.8 4.2		700 19 30N 10CT 9000 46.6 16.1		yo. 11 16N 79W 10200 56.8 58.0 23.5 34.0 yo. 21 13N 78W 9200 21.6 17.4 6.9 9.0 yo. 24 16N 79W 9000 34.0 50.6 12.4 13.5 yo. 50 50 50 50.0 50.0
	State		Wyo.		Colo.	Colo	Wyo.	Wyo.	Colo.	Wyo.	Colo.		Wyo.		Wyo. Wyo.
· Basing	(Primary & Secondary : & Snow Courses) :	Powder River	Red Fork Sour Dough	NORTH PLATTE RIVER Headwaters North Platte	Big Creek Lake	Columbine Lodge	Headquarters Park North Barrett Creek	Old Battle	Park View Ryan Park	Webber Springs	West Portal Greeley- Poudre Tunnel	Sweetwater River	Grannier Meadows	Laranie River	Brooklyn Lake Fox Park Hairpin Turn

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	Tributary Basins (Primary & Secondary & Snow Courses)	SOUTH PLATTE RIVER	Big South Cameron Pass Chambers Lake Deadman Hill East Portal Moffat Tunnel Fairplay Hidden Valley Hoosier Pass Jefferson Greek Loveland Pass Pole Mountain Wild Basin	Four Mile Park Fremont Pass LaVeta Pass Marshall Creek Foncha Creek Tennessee Fass Twin Lakes Tunnel

tural Experiment Station. This work is otherwise conducted cooperatively with the War Department, the State tions; Forest Service, National Park Service, Geological Survey, Bureau of Reclamation; and Montana Agricul-1/The snow measurements are made principally by field personnel of the following Federal Government organiza-(4818-37) Engineers of Wyoming and Colorado, U. S. Geological Survey, Montana and Colorado Agricultural Experiment Stations, and various municipalities, irrigation associations, power companies, and others. 3/ Common to two drainages. 2/In adjacent drainage.

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Reservoir Storage in Acre-feet, Colorado and Wyoming, as of May 1, for the Years 1928 to 1937 inclusive

Columns A and B - Percentage May 1, 1937 of capacity and 10-year average respectively. Based on data gathered by the State Engineer of Colorado and the U. S. Bureau of Reclamation Units are thousands of acre-feet.

A	69	98	109	102	92	113	16	100	16	134	95	107	8	152	11	33	163	182	52	98	142	101	104	85	22	108	17		9 5	81	.37)
A	80	25	- t-8	.62	45	250	10.0	76	53	66	11/	25	12	53	n	10	85	58	7	52	2001	56	2	19.	42	119	35		35	69	(4818-3
10-yr Avg.	Ac-ft	149.6	15.3	19.5	11.9	41.6	25.5	33.3	19.7	47.9	21.9	13.4	10.2	5.5	15.7	5.5	1.6	3.3	7.0	3.5	5.3	10.4	7.0	₩°8.	4.8	3.8	3.1		506.4	* 46.3	
1937	Ac-ft	1.84	10.1	20.0	11.0	0.74	24.7	33.4	19.5	64.3	20.9	14.4	3.0*	1.9	1.7	1.8	15.8	0.9	7.0	3.0	7.5	10.5	7.3	7.1	14.1	4.1	2.4		343.8	*	
1936	Ac-ft	32.0	14.2	11.4	3.5	中	18.6	31.2	12.0	56.8	22,0	14.5	Dry	=	=	2.6	13.4	4.1	3.0	3.0	2,9	11.2	5.1	8.1	7.5	2.9	2.8		263.5	*2.+++	
1935	Ac-ft	18.7	15.8	1.7	1.8	12.7	0.0	31.7	7.5	30.1	22.8	13.8	Dry	=	=	=	03 10	0.1	1.0	t.0	0.0	5.00	2,8	5.0	4.1	3.0	1.0		133.2	54-8*	
1934	Ac-ft	43.4	17.1	17.8	10.5	1.54	24.7	33.4	23.2	0,00	21.9	9.9	Dry	=	=	2.7	000	3.1	2°1	3.3	1,01	11.8	9.1	11.2	さずった	. 2.0	14.0		331.8	37.6	
1933	Ac-ft	7.8	14.6	12.0	6.4	1208	22.2	33.2	8.6	7°68	2003	5.9	Dry	4.3	Dry	Dry	7.7	7.8	000	3.1	9.0	7.5	5.0	6.1	4.1	1.6	2.3		1.40th	63.8	
1932	Ac-ft	748.0	13.1	10.2	7.7	41.8	27.1	33.5	21.8	22.2	22.6	5.9	2.5	Dry	Dry	4.9	3.4	H.	0.8	3.0	3.0	7.9	†•†	4.3	7.0	2.0	2.0		352.5		Feet
1931	Ac-ft	79.1	17.8	29.6	20.4	54.8	7-45	35.0	25.5	53.0	22.8	13.5	25.9	12.8	46.3	74.4	13.1	2.3	8.9	5.3	9.1	12.7	8.9	11.6	5.0	5.3	3.0		613.1	57.9	10 Acre-
1930	Ac-ft	1.67	16.6	28.4	19.2	50.4	33.5	34.5	27.0	149.2	22.6	20.4	25.3	10.9	56.9	9.7	17.1	5.7	11.0	5.0	03	16.9	2,0	1106	7.1	4.9	6.2		0.906	6002	of 54,61
1929	Ac-ft	8.99	14.5	29.9	19.6	55.7	35.9	34.5	27.9	62.2	21.8	18.7	27.7	6.3	29.5	8.9	13.6	3.8	1.5	4.3	7.5	13.6	8.9	11.7	5.8	500	2.9		815.6	4.64	acity
1928	Ac-ft	71.8	14.8	28.0	20.4	50.4	33.6	32.7	26.3	51.5	20.9	20.2	17.3	6.6	23.3	4.8	16.2	3.8	10.5	力。力	503	12.6	8.9	9.5	5.1	5.6	1.4		9000	37.0	**Based on Cap
Capacity	Ac-ft	79.0	19.8	32.2	7.42	57.5	37.7	35.4	32.8	65.0	28.2	57.9	26.0	26.9	61.6	17.8	18.5	10.3	14.3	5.4	12.7	18.6	9.5	11.6	8.6	t.9	8.9		1070.0	71.6	
Reservoir	CULORADO	Cheeseman	Marston	Barr	Milton	Riverside	Empire	Jackson	Prewitt	Point of Rocks	Julesburg	Twin Lakes	Meredith	Horse Creek	Adobe Creek	Model.	Standley	Marshall	Loveland	Mariano	Union	Windsor Res.	Cache la Poudre	Fossil Creek	Terry	Halligan	Chambers Lake	WYOMING	Pathfinder	Guernsey	*Estimated.

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